```
Λ[k_] := (1 - t) (α^2 β^2 + 4 α β δ μ + 2 δ^2 μ^2) / 2 +
    2 μ^2 (α β + δ μ) c_k - β (2 μ - 1) (α β + 2 δ μ) u_k +
    2 β δ μ^2 c_k u_k - β^2 δ (3 μ - 1) u_k^2 / 2 + α (α β + 2 δ μ) w_k +
    2 α δ μ^2 c_k w_k - 2 (t - 1) δ^2 (α β + δ μ) u_k w_k +
    2 δ^2 μ^2 c_k u_k w_k - β δ^2 (2 μ - 1) u_k^2 w_k + α^2 δ (1 + μ) w_k^2 / 2 +
    α δ^2 u_k w_k^2 - (t - 1) δ^4 u_k^2 w_k^2 / 2;
R+_(i_,j_) := 𝔼[1, b_i c_j, u_i w_j,
    -c_i (t - 1)^2 / 2 - c_i^2 (t - 1)^2 / 2 + c_i c_j (t^2 - t - 2) / 2 -
     c_j u_i w_i / 2 + c_i (1 - t) u_i w_i - u_i^2 w_i^2 / 2 + u_i w_j +
     c_j t u_i w_j / 2 + c_i (t - 2) t u_i w_j + c_i (1 + t) u_j w_j / 2 +
     (t - 1) u_i^2 w_i w_j - (t - 2) t u_i^2 w_j^2 / 2];
R-_(i_,j_) := 𝔼[1, -b_i c_j, -t^-1 u_i w_j,
    c_i (t - 1)^2 / 2 + c_i^2 (t - 1)^2 / 2 + c_i c_j (2 + t - t^2) / 2 +
     c_j u_i w_i / 2 + c_i (t - 1) u_i w_i + u_i^2 w_i^2 / 2 +
     (1 - t^-1) u_i w_j / 2 + c_i (2 t - 5 + 3 t^-1) u_i w_j / 2 +
     c_j (t^-1 + 1 - t) u_i w_j / 2 - c_i (t + 1) u_j w_j / 2 +
     (2 - 3 t^-1) u_i^2 w_i w_j / 2 + (1 + 2 t^-2 - 3 t^-1) u_i^2 w_j^2 / 2 -
     t^-1 (1 + t) u_i u_j w_j^2 / 2];
ur_i_ := 𝔼[t^-1/4, 0, 0, c_i t / 4 + u_i w_i / 8];
nr_i_ := 𝔼[t^1/4, 0, 0, -c_i t^3 / 4 - t^2 u_i w_i / 8];
ul_i_ := 𝔼[t^1/4, 0, 0, c_i t (4 + t) / 4 - t^2 u_i w_i / 8];
nl_i_ := 𝔼[t^-1/4, 0, 0, -c_i (1 + 4 t^-1) / 4 + u_i w_i / 8];
```